



Safety Data Sheet (SDS) Report

Project Number: P2025120001

Issue Date: 2025-1-4

Sample Description:

The sample information was submitted and identified on client's behalf to be:

Product Name : Alginate powder

Physical State : Solid

Data Received : 1th Jan, 2025

Data Reviewed : 4th Jan, 2025

Service Requested:

Based on the information provided by the applicant, the Safety Data Sheet (SDS) was generated in accordance with requirements of Regulations (EC) No 2015/830, Regulation (EC) No 1272/2008, REACH 1907/2006, for details please refer to attached pages.

Authorized By:

On Behalf of Regulatory Affairs in Intertek Testing Services Ltd., Shanghai

A handwritten signature in black ink, appearing to read 'Alex Wang'.

Alex Wang

Senior Manager

Intertek Chemicals and Pharmaceuticals

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Alginate powder

Safety Data Sheet Conforms to Regulation (EU) No 2015/830), REACH 1907/2006
Reg. (EC) No 1272/2008 and their amendments

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1.1. Product identifier

Product name: Alginate powder
Synonyms: None
Proper shipping name: None
Other identities: Alginate impression material

1.2. Relevant identified uses of the product and uses advised against

1.2.1. Relevant identified uses

To copy hand mold

1.2.2. Uses advised against

Advise against other uses.

1.3. Details of the supplier of the safety data sheet

Supplier name: Nuture (Xiamen) Industrial Co., Ltd
Address: 4th floor, Building 2, NO#2 Xiayang Road, Haicang district, Xiamen city, Fujian, China
Telephone: 86 0592 5669176
Emergency telephone: 86 0592 5669176
E-mail: connie@nuture.cn

Importer name:

Address:

Telephone:

E-mail:

1.4. Emergency telephone number

Country	Advisory body	Address	Emergency number
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SECTION 2: Hazards identification

2.1. Classification of the product

Classification according to Regulation (EC) No 1272/2008 (CLP), REACH 1907/2006

Not considered as a hazardous mixture.

Other adverse physico-chemical, human health and environmental effects

None

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP), REACH 1907/2006

Hazard pictogram:

Not Applicable

Signal word: Not Applicable

Hazard statements: Not Applicable

Precautionary statements:

Prevention: Not Applicable

Response: Not Applicable

Storage: Not Applicable

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Disposal: Not Applicable

2.3. Other hazards

None

SECTION 3: Composition/information on ingredients

3.1. Substance

See 'Composition on ingredients' in Section 3.2

3.2. Mixture

1. 2. 3. 4.	CAS# EC# Index # REACH #	Name	% w/w	Classification according to (EC) No 1272/2008 REACH 1907/2006 (CLP)
1. 2. 3. 4.	61790-53-2 Not Available Not Available Not Available	Silica amorphous	66	Not Classified
1. 2. 3. 4.	7778-18-9 231-900-3 Not Available Not Available	Calcium sulfate	15	Not Classified
1. 2. 3. 4.	9005-38-3 Not Available Not Available Not Available	Sodium alginate	12	Not Classified
1. 2. 3. 4.	1309-48-4 215-171-9 Not Available Not Available	Magnesium oxide	5	Not Classified
1. 2. 3. 4.	25322-68-3 500-038-2 Not Available Not Available	Polyethylene glycol	2	Not Classified

Full text of H- and EUH-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation: Move victim to fresh air. If not breathing, give artificial respiration. Get medical attention.

Skin contact: Immediately wash with plenty of soap and water. Get medical attention if irritation occurs.

Eye contact: Immediately flush eyes with running water for at least 20 minutes holding eyelids open. Get medical attention.

Ingestion: Do not induce vomiting. Give 1-2 glasses of water to a conscious victim. Never give anything by mouth to an unconscious victim. Get medical attention.

4.2. Most important symptoms and effects, both acute and delayed

See Section 11

4.3. Indication of any immediate medical attention and special treatment needed

Get medical attention and treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Foam
Dry chemical powder

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5.2. Special hazards arising from the product.

Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result.

5.3. Advice for firefighters

Alert Fire Brigade and tell them location and nature of hazard.

When silica dust is dispersed in air, firefighters should wear inhalation protection as hazardous substances from the fire may be adsorbed on the silica particles.

When heated to extreme temperatures, (>1700 deg.C) amorphous silica can fuse.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Wear chemical goggles and chemical resistant gloves.

6.1.2. For emergency responders

Wear breathing apparatus plus protective gloves. Remove ignition sources and provision of sufficient ventilation, evacuate the danger area and consult experts.

6.2. Environmental precautions

Take precautions to prevent entry into waterways, sewers, or surface drainage systems. Dispose according to local or international regulations.

6.3. Methods and material for containment and cleaning up

Use appropriate tools to put the spilled chemicals in suitable container for recovery or disposal.

6.4. Reference to other sections

Refer to Section 8 for Personal Protective Equipment advice.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Do not handle until all safety precautions have been read and understood. Do not eat, drink or smoke when using this product.

Limit all unnecessary personal contact.

Wear protective clothing when risk of exposure occurs.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in original container. Refer to section 10.

Storage incompatibility: Avoid reaction with strong acid, alkali and oxidizing agents.

7.3. Specific end use(s)

Apart from the uses mentioned in section 1.2, no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection

8.1. Control parameter

OCCUPATIONAL EXPOSURE LIMITS (OEL)

Source	Ingredient	TWA	STEL	Peak
UK Workplace Exposure Limits (WELs)	silica amorphous (Diatomaceous earth, natural, respirable dust)	1.2 mg/m ³	No data available	No data available
UK Workplace Exposure Limits (WELs)	magnesium oxide (Magnesium oxide (as Mg) inhalable dust)	10 mg/m ³	No data available	No data available
UK Workplace Exposure Limits (WELs)	magnesium oxide (Magnesium oxide (as Mg) fume and respirable dust)	4 mg/m ³	No data available	No data available

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8.2. Exposure controls

Engineering measures

Provide appropriate exhaust ventilation at places where dust is formed.

Personal protective equipment

Respiratory protection	:	Wear respiratory protection device in case of dust formation.
Eye protection	:	Wear splash-proof safety goggles if product could be misted or splashed into eyes.
Skin and body protection	:	Wear protective gloves, impervious clothing, safety shoe.
Hygiene measures	:	Wash hands before breaks and at the end of workday. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	White powder
Colour:	White
Odour:	No data available
pH:	No data available
Melting point/freezing point:	No data available
Boiling point:	No data available
Flash point:	No data available
Vapour pressure:	No data available
Relative density:	No data available
Water solubility:	No data available
Partition coefficient (n-octanol/water):	No data available
Auto-ignition temperature:	No data available
Flammability:	No data available
Upper/lower explosive limits:	No data available
Explosive properties:	No data available
Oxidising properties:	No data available
Dissociation constants:	No data available
Surface tension:	No data available
Viscosity:	No data available

9.2. Other information

No data available.

SECTION 10: Stability and reactivity

10.1. Reactivity

May react with strong acid, alkali, oxidizing agents and incompatible materials.

10.2. Chemical stability

Presence of incompatible materials.

Product is considered stable.

Hazardous polymerisation will not occur.

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10.3. Possibility of hazardous reactions

Hazardous reactions may occur if contact with incompatible material.

10.4. Conditions to avoid

High temperature, ignition sources (sparks, flames, static), incompatible materials.

10.5. Incompatible materials

Strong acid, alkali and oxidizing agents

10.6. Hazardous decomposition products

On combustion or thermal decomposition, may emit toxic fumes.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

No data available for the mixture.

Acute Toxicity:	Calcium sulfate: Oral (Rat) LD50: 3160 mg/kg Dermal (Rat) LD50: 5000 mg/kg Inhalation (rat) LC50: 0.139 mg/l/14h Calcium sulfate: Oral (rat) LD50: >1581 mg/kg
Skin Irritation/Corrosion	No skin irritation
Serious Eye Damage/Irritation	No eye irritation
Respiratory or Skin sensitisation	No data available
Mutagenicity	No data available
Carcinogenicity	No data available
Reproductivity	No data available
STOT - Single Exposure	No data available
STOT - Repeated Exposure	No data available
Aspiration Hazard	No data available

SECTION 12: Ecological information

12.1. Aquatic toxicity

No data available for the mixture.

12.2. Persistence and degradability

Ingredients	Persistence:Water/soil	Persistence: air
calcium sulfate	High	High
polyethylene glycol	Low	Low

12.3. Bioaccumulative potential

Ingredients	Bioaccumulation
calcium sulfate	LOW(LogKow= -2.2002
polyethylene glycol	LOW (LogKOW = -1.1996)

12.4. Mobility in soil

Ingredients	Mobility
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calcium sulfate	LOW (KOC = 6.124)
polyethylene glycol	HIGH (KOC = 1)

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product disposal: refer to specific national regulation.

Contaminated packaging: contaminated, empty containers must be disposed of as chemical waste.

SECTION 14: Transport information

Label required

None

Land transport (ADR / RID / GGVSE)

NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR)

NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee)

NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Inland waterways transport (ADNR / River Rhine)

NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.7. Transport in bulk according to Annex II of MARPOL 73 / 78 and the IBC code

No data available

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

This safety data sheet is in compliance with the following EU legislation and its adaptations - as far as applicable - : Directives 98/24/EC, - 92/85/EEC, - 94/33/EC, - 2008/98/EC, - 2010/75/EU; Commission Regulation (EU) 2015/830; Regulation (EC) No 1272/2008; REACH 1907/2006 as updated through ATPs.

15.2. Chemical safety assessment

No chemical safety assessment report was provided for this safety data sheet compilation.

SECTION 16: Other information

16.1 Key literature references and sources for data

- Information on Chemicals in ECHA website, <http://echa.europa.eu/information-on-chemicals>

- IFA GESTIS - International limit values for chemical agents - Occupational exposure limits (OELs), http://www.dguv.de/ifa/en/gestis/limit_values/index.jsp

16.2 List of relevant hazard statements and risk phrases

None

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16.3 Other

This product should be stored, handled and used in accordance with good industrial hygiene practices and in conformity with any legal regulation. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

Definitions and abbreviations

PC—TWA: Permissible Concentration-Time Weighted Average

PC—STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit.

IDLH: Immediately Dangerous to Life or Health Concentrations

OSF: Odour Safety Factor

NOAEL :No Observed Adverse Effect Level

LOAEL: Lowest Observed Adverse Effect Level

TLV: Threshold Limit Value

LOD: Limit Of Detection

OTV: Odour Threshold Value

BCF: BioConcentration Factors

BEI: Biological Exposure Index

The information presented in this SDS is based on our current knowledge and available data as of the issue date, and is only intended to describe the product for the purposes of protecting human health and environment from potential hazard. It should not therefore be construed as guaranteeing any specific property of the product.